

The following Listing of Claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS:

1. (Currently Amended) A compressor comprising:
a compressor mechanism configured to compress fluid, the compressor mechanism including a discharge port; and
a reed valve coupled to the compressor mechanism to open and close the discharge port of the (41) which opens and closes a discharge port (29) of a compressor mechanism, the reed valve including (20) and includes a flat part (41a) and a protruding part (41b) formed at a distal end of the flat part (41a) to come in and out of the discharge port, (29), wherein
the shape of the discharge port (29) and the shape of the reed valve (41) are determined being dimensioned to satisfy
$$S2 \geq S1 \geq S0,$$

wherein where S0 is an opening area of an inlet (29a) of the discharge port (29),
S1 is the a smallest cross sectional area of a flow passage formed between the protruding part (41b) and the discharge port (29) when the reed valve (41) is lifted to the a maximum level, and
S2 is the a smallest cross sectional area of a flow passage formed between the flat part (41a) and the an outer periphery of an outlet (29b) of the discharge port (29) when the reed valve (41) is lifted to the maximum level.
2. (Currently Amended) The compressor of claim 1, wherein
the discharge port (29) is tapered from the outlet (29b) to the inlet (29a).

3. (Currently Amended) The compressor of claim 1 ~~or 2~~, wherein
a seat ~~(22b)~~ is formed at the outer periphery of the outlet ~~(29b)~~ of the discharge port
~~(29)~~ such that the seat ~~(22b)~~ contacts the flat part ~~(41a)~~.

4. (New) The compressor of claim 2, wherein
a seat is formed at the outer periphery of the outlet of the discharge port such that the
seat contacts the flat part.